


# MEMO

**DATE:** February 3, 2005

**TO:** Transportation & Communications Committee

**FROM:** Nancy Pfeffer, Senior Regional Planner, 213-236-1869, pfeffer@scag.ca.gov 

**SUBJECT:** Goods Movement White Paper for Secretary of Business, Transportation & Housing

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## SUMMARY:

Staff have prepared a white paper on regional goods movement issues at the request of Business, Transportation & Housing (BT&H) Secretary Sunne McPeak. The paper describes current needs for the goods movement system and what the state and federal government can do to help the region meet these needs.

## BACKGROUND:

During Governor Schwarzenegger's Fall 2004 visit to Japan, he was criticized by government and business leaders for allowing congestion at the San Pedro Bay ports to impede the flow of goods from Asia to U.S. markets. On his return, the Governor tasked BT&H Secretary Sunne Wright McPeak with developing a strategy on this issue.

In late November the Secretary asked SCAG to work with the LA County Economic Development Corporation (LAEDC), the region's transportation agencies, goods movement system operators and other stakeholders to develop a white paper describing the region's needs. The paper was developed and provided in initial form to the Secretary for a fact-finding meeting with the principals – CEO's and other senior management – of the participants in the process on December 15, 2004, in Sacramento.

A copy of the paper in its current form ("proposed final version") is attached. Staff will update the Committee on the process of finalizing the paper and next steps at the regional and state levels.

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December 13, 2004

Hon. Sunne Wright McPeak  
Secretary, Business, Transportation & Housing  
State of California  
980 9<sup>th</sup> Street  
Sacramento, CA 95814

Dear Secretary McPeak:

I am pleased to submit to you the materials you requested related to goods movement in Southern California. I understand and very much appreciate the Governor's interest in this issue, which is also of critical concern to SCAG and all the transportation agencies we work with.

You will find attached a brief (two-page) summary of the goods movement issues currently facing our region. It outlines the key short-term concerns, actions that have been taken, and actions that need to be taken to keep goods and people moving.

The two-page document is supported by a longer, technical white paper, also enclosed, that provides the details of the current situation in our region. I hope it will prove helpful to you and your staff as you work with the Governor on his action plan, and I will be happy to provide any additional information you may require in that effort.

I have also provided a few sentences on this topic for potential inclusion in the Governor's State of the State address in early January. An agenda for your December 15<sup>th</sup> meeting is enclosed as well.

The enclosed materials were developed in close collaboration with the county transportation commissions for Los Angeles, Orange, Riverside, San Bernardino, and Ventura, the Burlington Northern & Santa Fe Railway Company, Union Pacific Railroad, Alameda Corridor Transportation Authority, OnTrac, Alameda Corridor East Construction Authority, the Ports of Hueneme, Long Beach, and Los Angeles, Caltrans, Metrolink, and the Los Angeles County Economic Development Corporation. However, this is a complex issue with many actors, and a constantly evolving one. Many stakeholders remain to be brought into the process, and I look forward to working with you on that important effort.

Sincerely,

Mark Pisano  
Executive Director

cc: Chris Becker, OnTrac  
LaDonna DiCamillo, BNSF  
John Doherty, ACTA  
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David Solow, Metrolink  
Elizabeth Warren, LA Area Chamber of Commerce  
Tom Warren, Port of Los Angeles

## **Southern California Regional Strategy for Goods Movement: A Plan for Action**

This fall, Southern California experienced a bottleneck in freight movement through the San Pedro Bay ports. Ships waited days to enter the ports with goods for the holiday season bound for stores in California and beyond, and some ships diverted to other West Coast ports.

Through a combination of short-term actions, this immediate crisis is being relieved. First, the longshoremen's union has added 3,000 new hires to keep goods moving from the container ships.

Second, a new program called PierPass will collect container fees to fund extended gate hours. The addition of five new off-peak shifts will make productive use of more hours of the day. The ports are taking other actions to increase the use of rail to move goods, keeping trucks off the highways during peak traffic hours.

Third, \$2 billion in near-term construction projects are under way, including rail-highway grade crossing separations and truck climbing lanes, that will keep goods moving through the region once they leave the ports. Negotiations are occurring for the implementation of demonstration projects, such as a shuttle train that will relieve highway congestion related to goods movement.

These short-term actions are only the beginning. We will need to be, and will continue to be, vigilant over the next three to six years to make sure that these actions continue to keep the goods moving. In the meantime, the Governor and the U.S. Secretary of Transportation have the opportunity to plan for the future, when the volume of freight transportation through Southern California will double or even triple.

Our success is contingent on our ability to address four overarching issues:

1. We must address community concerns over air pollution, health impacts, and other impacts of freight movement by ship, truck, and rail. To assure this, only projects that have environmental and community clearance can be brought forward. This should be accomplished through a master-level environmental impact review. Acceleration of both the federal and state review processes is needed to facilitate such an effort. Further, it is important that the California Environmental Protection Agency and Air Resources Board take a leadership role in reducing air pollution from the ports and related sources. It is also important that international standards for ship emissions be imposed through U.S. ratification of MARPOL Annex VI.
2. Goods movement projects must be funded through a variety of non-traditional means that do not compete with traditional transportation revenues. Other potential sources of funding include user or beneficiary fees, tax credit

instruments, private activity bonds, and federal loans and loan guarantees. The region has already requested over \$1 billion in federal funding for Projects of National and Regional Significance through the reauthorization of TEA-21, but this is only a small portion of the total funding needed for the regional system.

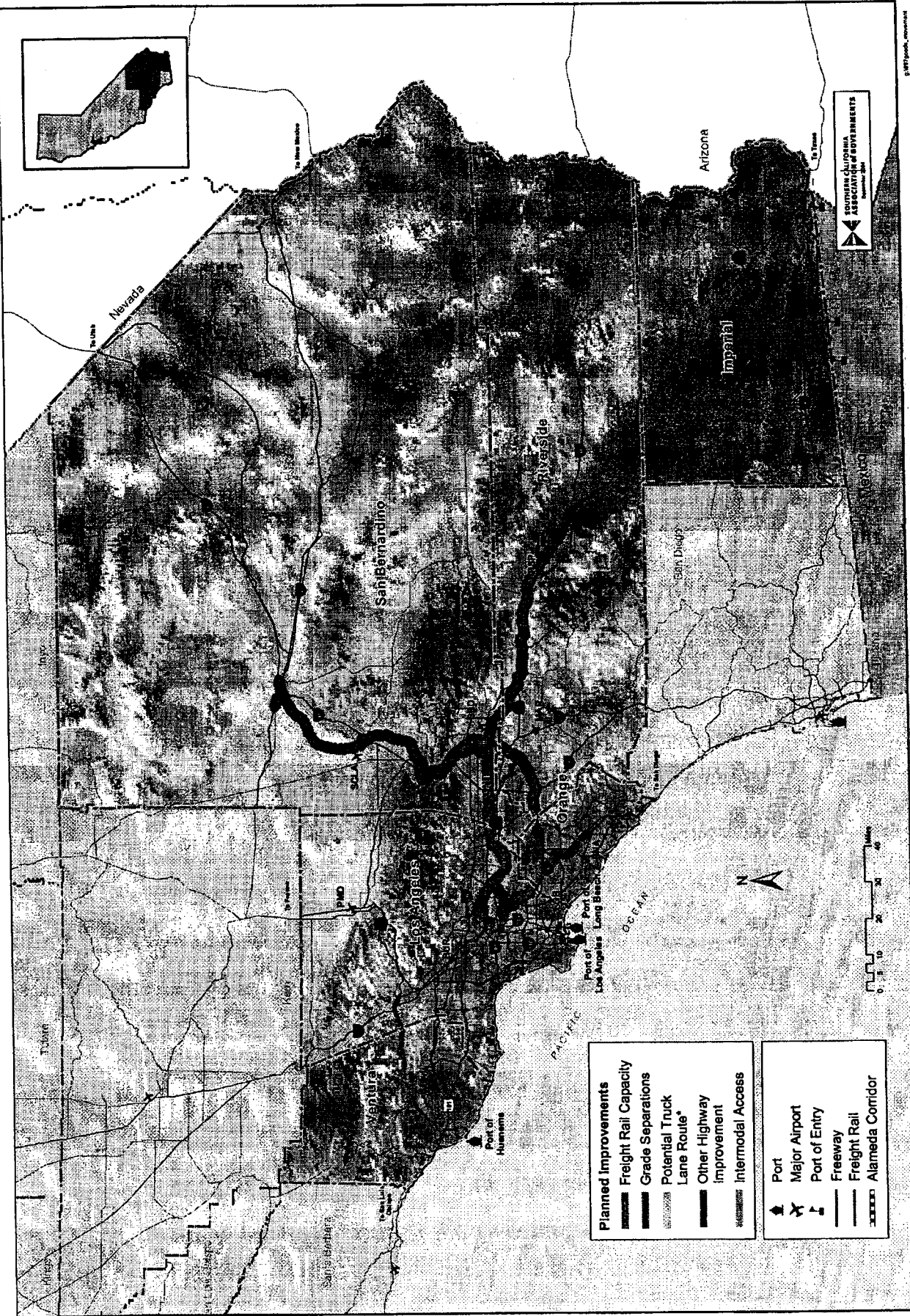
3. Projects must be facilitated through the use of innovative procurement arrangements, such as the design-build method, that compress the project delivery timeline. Changes to state law are needed to make this process more widely applicable.
4. In achieving these ends, the region and state must speak with one voice to the federal government. The Governor's leadership and his initiative to collaborate with the White House, Secretary of Transportation, and Congress on these issues are essential to success.

With these tools in place, Southern California can proceed to implement a variety of short- and long-term actions that will respond to the growing demand for goods movement while mitigating community impact.

By 2010, the region will need additional freight rail capacity to keep pace with goods movement demand. New intermodal facilities will also be needed to transfer goods between truck and rail. Dedicated truck lanes should be added to several area freeways to increase the speed and safety of goods moving by highway. Again, these projects must be accompanied by mitigation of local impacts – for example, through the separation of at-grade crossings and the widespread adoption of cleaner fuels. The attached map shows needed additions to the Southern California goods movement system.

Important as these investments are to the region's quality of life, they have a significant economic benefit for the region and for the state. Logistics jobs are high-paying – more on average than construction or manufacturing. Just by investing in new freight rail capacity and truck lanes, Southern California could add 277,000 jobs and produce over \$2.1 billion over the next six years in additional federal, state, and local tax revenue. Thus, these investments can help balance the state budget. We have the opportunity to shape a more prosperous future for California by supporting and implementing these goods movement actions.

# Needed Additions to the Goods Movement System



\* Regarding SR-80 and I-5, route and scope may change depending on the results of the Multi-County Goods Movement Action Plan.

**Southern California Regional Strategy for Goods  
Movement: A Plan for Action  
December 2004**

**I. The Need: Goods Movement is a Challenge That Affects Everyone**

Keeping freight moving through Southern California to the region and the rest of the nation has always been a challenge, but this is a particularly difficult time. This fall, container ships were lined up outside the San Pedro Bay ports, where a labor shortage slowed the offloading of goods arriving for the holiday shopping season. Intermodal yards in Los Angeles and San Bernardino counties have nearly reached their capacity to transfer containers from trucks to rail, and ~~are a local bottleneck in the process. Freight railroads are so busy that they have raised their rates and~~ have limited the volume of freight they receive into their yards. Freight volumes are expected to at least double and maybe triple in the next two decades – and all recent projections have turned out to be underestimates.

Running counter to all this demand is a rising tide of community pressure to reduce the traffic congestion and related public health impacts of goods movement. Facing criticism from air quality advocates, the Board of Harbor Commissioners of the Port of Long Beach recently rejected an environmental impact report for the Pier J expansion, and port staff estimates it will take a year to complete a more detailed analysis. New studies have shown that children's lung growth is impaired by air pollution arising from mobile sources such as trucks. In addressing congestion on the 710 freeway – a major regional artery for goods movement – a Community Advisory Committee has given its input to the Los Angeles County Metropolitan Transportation Authority: "Health is the overriding consideration. Air quality is the number one public health issue."

The economic health of the region, state, and nation is also at stake, as is economic ~~justice~~ opportunity for all the region's inhabitants. Failure to resolve the infrastructure and environmental issues will result in slower growth and inevitable job losses throughout the economy. The logistics industry provides critical job opportunities ~~for our region's citizens,~~ particularly those with ~~marginal~~ limited formal educations. As a group, the logistics sectors pay better than either construction or manufacturing. They provide reasonable entry-level pay and defined skill ladders ~~up which workers can~~ that enable workers to move to higher incomes by on-the-job learning and experience. In this respect, they offer these workers access to the kinds of career paths lost with the demise of traditional manufacturing.

At root, this is an issue of global competitiveness for the region, the state, and the nation. Southern California is a global gateway for freight – well over half of the goods coming into our ports are just passing through – but it receives more of the burdens and fewer of the benefits than it should. With public funding in short supply, however, we must also face the reality that public-private partnerships will be the cornerstone of any realistic plan of finance.

## **II. Fundamental Principles and Strategies the Region Has Agreed to Follow**

The region's transportation agencies and goods movement system operators have agreed proposed that the following principles should to guide the process of improving effort to improve the regional goods movement system.

*Principle 1) Environmental and community impact mitigation must be integral to the goods movement program.*

- There must be a stronger federal-state partnership to reduce emissions from trucks, ships, trains, and other sources outside local jurisdiction.
- The Governor should work with the President to regulate emissions from foreign-registry vessels via treaty ratification and other international actions. Specifically, the Governor should advocate for the U.S. Senate's ratification of MARPOL Annex VI relating to the control of emissions from ships and for the International Maritime Organization's (IMO) adoption of a Sulfur Emission Control Area (SECA) for U.S. coastal waters.
- The Governor should promptly implement his commitment to direct the California Environmental Protection Agency and California Air Resources Board (CARB) to develop an innovative program to reduce air pollution from the ports.
- Other community impacts, such as noise, congestion, and visual blight, should be addressed in a system-wide environmental review under the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA). The system-wide environmental review should encompass both land- and sea-side environmental impacts. The Governor can help facilitate this review through reform of CEQA to focus on mitigation and an expedited documentation process.<sup>1</sup>

*Principle 2) Improvements to the goods movement system should not come at the expense of other transportation system investments.*

- Other sources of public and private funds must be tapped (homeland security, environmental protection, defense funds, ~~private~~-user fees, and growth in customs fees, among others).
- Both the Federal and State governments must act to support innovative procurement and public-private funding mechanisms.

*Principle 3) Investments in the regional goods movement system should be made to realize regional benefits that have statewide implications.*

<sup>1</sup> At the December 15<sup>th</sup> meeting, the Secretary and the Principals will discuss Further details are being developed on institutional arrangements for implementing changes to environmental documentation.



- **Performance Benefits**

The performance-based approach to evaluating transportation investments has shown specific performance benefits. For example, analysis of a proposed dedicated truckway on State Route 60 showed a reduction of more than 50 million vehicle hours of delay annually and a return of \$5.92 for every dollar invested in the project. Similarly, a dedicated truckway on Interstate 710 connecting the Ports of Los Angeles and Long Beach to State Route 60 near downtown Los Angeles could reduce over 36 million vehicle hours of delay annually and generate a return of \$4.66 for every dollar invested. These dollar returns include savings from reduced delay, accident reduction, reduced vehicle operating costs, and air quality benefits. They show how specific investments in truckways, for example, can have benefits for both trucks and all other users of the transportation system.

On the freight rail side, the Alameda Corridor project has reduced emissions from idling cars and trucks by 54 percent and cut travel time to 45 minutes from two hours. The Alameda Corridor East and other grade separation projects seek to extend these benefits regionwide.

- **Environmental Benefits**

The 2004 Regional Transportation Plan (RTP) explores market-based strategies that can mitigate congestion and associated emissions while accommodating expected increases in trade activity. For instance, user-supported dedicated facilities for goods movement could help bolster the economy, improve safety, relieve congestion, and, if implemented with clean technologies, help improve air quality at the ports, throughout Southern California, and beyond.

Air quality mitigation must be fully integrated into the goods movement system improvements. Substantial air quality benefits can be realized by accelerating fleet modernization and retrofitting trucks, ships, and trains with cleaner technologies. Investment in modernizing and retrofitting the goods movement fleet is one of the most cost-effective methods to reduce emissions of particulate matter (PM) and smog-forming nitrogen oxides (NOx). An investment of approximately \$300 million a year for the next five years could potentially remove the 50,000 dirtiest diesel trucks from Southern California, which would achieve a 50% reduction of NOx and an 80% reduction in PM emissions from these trucks. Retrofitting locomotives, marine vessels, and diesel equipment could also provide a cost-effective investment to reduce tons of NOx and PM per day.

Of the roughly 33 tons of NOx that cargo ships emit at the two ports each day, about 40% are emitted from ships while they are docked. Thus the potential benefits for retrofitting ships and the port facilities to permit cold-ironing are

substantial. It is estimated that the costs of installing the dockside infrastructure might range from \$750,000 to \$5 million per berth, and the costs of retrofitting ships might range from \$200,000 to \$1 million. Vessel speed reduction programs can further reduce emissions from cargo ships and provide substantial fuel consumption and fuel cost savings.

- Economic Benefits

The freight logistics industry – wholesale trade, warehousing, and transportation sectors – represents over 8 percent of the SCAG region's total employment, or 611,000 jobs in 2003<sup>2</sup>. Since 1990, the logistics industry has contributed more than 12 percent of total job growth in the region. SCAG's projection shows that the industry will almost double its employment size by 2030, to reach over 1,000,000 jobs and account for almost 10 percent of regional employment.

Moreover, over a quarter million manufacturing jobs directly related to merchandise exports are supported by the logistics infrastructure. The industry also pays well: its average weekly pay – \$847 in 2003 – is more than two times the pay in the leisure and hospitality sectors (\$400/week), and is even higher than average weekly pay in manufacturing (\$843).

SCAG has estimated the economic value to the region of just a portion of the goods movement infrastructure investments detailed above. The following table summarizes the overall economic impacts of investing in a regional truck lane system and adding freight rail capacity. The region is expected to gain a total of almost 277,000 jobs from implementation of these projects, and average wages for these jobs range between 12 and 28 percent higher than existing average salaries.

Table 1. Overall Economic Impacts of Regional Goods Movement Initiatives<sup>3</sup>

OVERALL ECONOMIC IMPACTS OF THE REGIONAL GOODS MOVEMENT INITIATIVES											
	Employment Impacts (Jobs)				Income Impacts (\$Million)				Tax Impacts (\$Million)		
	Direct	Indirect	Induced	Total	Direct	Indirect	Induced	Total	Federal	State & Local	Total
Truckways	123,306	51,824	51,909	227,040	4,424.2	1,999.7	1,333.5	7,757.4	1,326	426	1,752
Rail Investment	24,921	13,689	11,265	49,876	923.1	492.0	289.4	1,704.5	291	94	385
Total	148,227	65,514	63,174	276,915	5,347.3	2,491.8	1,622.9	9,461.9	1,617.9	519.7	2,137.6

SOURCE: SCAG IMPLAN INPUT-OUTPUT MODEL

*Principle 4) Without leadership and collective action at the state and national level, we will not be able to realize these benefits.*

<sup>2</sup> This is a conservative estimate in that it does not include transportation and warehousing functions performed in-house by many businesses.

<sup>3</sup> Based upon \$20 billion invested between now and 2020.

- The Governor should support legislation to provide for innovative project procurement and financing and to streamline state environmental review procedures.<sup>4</sup>
- The Governor should work with the U.S. Secretary of Transportation and Congress to support specific elements of pending federal legislation beneficial to goods movement (i.e., the National Corridor Infrastructure Improvement Program, Freight Intermodal Connectors, and Projects of National and Regional Significance), and to support streamlining of federal environmental review.
- The Governor should seek White House approval to include a master Environmental Impact Statement (EIS) in support of this initiative on the President's list of streamlined EISs.<sup>5</sup>
- The Governor and regional stakeholders should work with the new U.S. Department of Transportation Southern California Gateway office in Long Beach on local implementation of new national and state policies.

### **III. How the Goods Move Today**

Goods move into, out of, and within Southern California via a complex system of transportation facilities and agencies. This system links the region to the rest of the state and to the nation, helping to sustain the region's economy and contributing to our quality of life.

The regional goods movement system includes three seaports (Los Angeles, Long Beach, and Hueneme), several commercial airports actively handling cargo, six rail intermodal yards – five in Los Angeles County and one in San Bernardino County – and a growing array of trucking and distribution centers, warehouses, manufacturing and retailing venues. Within the region, goods travel to and between these points via eight railroad mainlines, additional branch lines, and four short line railroads, as well as by the region's freeways and many arterial and local streets.

Map 1 shows the existing regional goods movement system.

### **IV. A Unified Goods Movement System Solution, and How to Pay for It<sup>6</sup>**

It is clear that substantial investment will be needed to provide the infrastructure to carry goods to and through Southern California safely, quickly, with minimal local cost and with maximum local economic benefit. This need arises at a time when public funds are extremely limited. SCAG and its member counties are working with Sacramento and Washington to

<sup>4</sup> In order to implement this, we need a responsible state agency or other institution to function as the lead agency.

<sup>5</sup> President Bush's 2002 Executive Order 13274 instructs DOT to select priority transportation projects for a streamlined environmental decision-making process.

<sup>6</sup> ~~At the December 15<sup>th</sup> meeting, the Secretary and the Principals will discuss~~ Further detail is being developed on the finance mechanisms for goods movement improvements ~~that will include~~ a discussion of tax credit bonds at the state or federal level and other financial mechanisms as appropriate.

direct a more equitable share of transportation funding to the region relative to the value we now contribute to other parts of the country.

The transportation agencies, railroads, ports, and other operators of the region's goods movement system have been working together for some time to address the growing demand. Section V of this paper provides further details about the short- and long-term operational and infrastructure changes under way in the region.

A consensus is emerging on the specific projects and investments that are needed in the region to keep freight moving, mitigate environmental and community impacts, and avoid the loss of job and tax revenue growth. However, it is important to recognize that as the system develops, the regional understanding of needs evolves. Table 2 below lists major projects that are currently understood to be needed over the next ten years, with a total cost that approaches \$30 billion.

Table 2. Southern California Regional Goods Movement System: Potential Needs (Fall 2004)

Project	Approx. Total Cost (\$Millions)
Alameda Corridor East	\$2,500
Colton Rail Grade Separation	\$90
Rail Capacity Improvements (all counties, includes mitigation measures)	\$3,400
Near-Dock Intermodal Facility, LA/LB <sup>a</sup>	TBD
New Rail San Fernando to Antelope Valley <sup>a</sup>	TBD
Port/Rail Intermodal Access, Ventura	\$18
Santa Paula Branch Line to Port Hueneme <sup>a</sup>	TBD
Shuttle Train Inland Terminal <sup>a</sup>	TBD
<b>Rail/Grade Separation Subtotal</b>	<b>\$6,008</b>
SR-57 Truck Climbing Lane	\$68
SR-91 Truck Storage Lane	\$5
I-15 Truckway	\$10,100
SR-60 Truckway <sup>b</sup>	\$4,300
I-5 Truckway <sup>a,b</sup>	TBD
I-710 Corridor/Gerald Desmond Bridge Gateway Program	
• Gerald Desmond Bridge	\$711
• I-710 Corridor <sup>c</sup>	\$4,500
SR-78/Brawley Bypass <sup>d</sup>	\$108
SR-47 Improvements and Shuttle Train Inland Terminal	\$4520
110 Freeway/SR-47/Vincent Thomas Br.	\$23
<b>Highway/Other Subtotal</b>	<b>\$1920,335</b>
<b>Grand Total</b>	<b>\$256,343</b>

Notes:

- These projects have been identified since the adoption of the financially constrained 2004 RTP. Costs still need to be determined for these projects.
- Route and scope may change depending on the results of the Multi-County Goods Movement Action Plan (see Section V).
- The \$4.5 billion cost estimate is based upon more recent corridor analyses/studies assuming a broader project scope than what is currently reflected in the 2004 RTP at \$2.2 billion.
- Costs reflect total project costs even though phases may be programmed in the current TIP

Members of Southern California's congressional delegation have requested \$745 and \$900 million in funding for the I-710/Desmond Program and Alameda Corridor East, respectively, as Projects of National and Regional Significance under the reauthorization of the Transportation Equity Act for the 21<sup>st</sup> Century. Clearly, these requests are only first steps towards meeting the regional needs outlined above. Map 2 shows the regional goods movement system as it would look with these investments. (The map does not include projects whose precise locations are not yet known.)

It is important to note that, in recommending a system-wide environmental review process, the region does not intend to delay the implementation of projects that are already in progress or that do not require environmental clearance. For all the reasons stated earlier, it is critical to continue to improve the goods movement system as quickly as possible.

Again, given current limits on local and state finances, innovative methods will be needed to procure and pay for these system improvements. Policy makers have the responsibility to enhance innovative financing opportunities so that public funds can better support critical goods movement projects that contribute to the national economy, local communities, and the environment. Accordingly, regional goods movement financing recommendations include the expansion of existing federal credit enhancement programs and the establishment of tax incentives to facilitate public-private partnerships – in conjunction with user/beneficiary fees and more efficient procurement arrangements, as briefly outlined below:

- a) **Transportation Infrastructure Finance and Innovation Act of 1998 (TIFIA)** – The TIFIA program provides direct federal loans, loan guarantees, and standby lines of credit to large projects of national significance. The program must be expanded to include broader eligibility provisions for application to goods movement projects including privately owned freight rail infrastructure. Further, access to TIFIA credit enhancement tools must be facilitated by establishing a pre-TIFIA equity infusion or “pipeline” program whereby federal assistance in the form of direct grants are provided to advance projects to at least 30 percent design – covering early stage development phase activities, which often present substantial risks and challenges for private sector partners. Accordingly, federal assistance targeted during this initial development phase can induce private sector co-investment and further bridge the gap for accessing already existing innovative financing mechanisms.
- b) **Tax-exempt private activity bonds for goods movement facilities** – State and local governments currently utilize the most common method of borrowing to support the development of infrastructure by issuing municipal bonds – backed by dedicated revenue streams. Municipal bonds are interest bearing obligations issued by state or local governments to finance public facilities. The interest paid to investors is exempt from federal income tax and sometimes state income tax, providing considerable savings to borrowers/project sponsors – approximately a 20-25% interest saving in present value terms. Access to the tax-exempt municipal bond market has been critical in serving as a form of federal assistance to states and localities for investment in infrastructure.

However, the issuance of tax-exempt bonds is subject to a complex set of federal regulations and restrictions, particularly when the project being financed involve private sector participation – then considered private activity financing. Federal assistance programs, however, must be targeted to encourage public-private partnerships in the development of goods movement facilities that generates economic returns as well as spillover public benefits (safety, mobility, air quality, and national security). Federal programs must encourage projects that have revenue-generating ability and private sector co-investment.

- c) **Tax-credit bonds for goods movement facilities**<sup>7</sup> – Tax credit bonds currently in existence include Qualified Zone Academy Bonds (QZABs) to finance improvements in public schools located in disadvantaged areas. These instruments effectively offer zero interest cost borrowing, representing more than 50% saving in present value terms to borrowers/project sponsors – indeed, a substantially deeper subsidy than even tax-exempt bonds could provide. Similar to the existing QZAB program, the proposed tax credit bond pilot program for freight infrastructure development would be structured more generally as follows:
- Project sponsors would be responsible for only the principal portion of the debt (backed by project generated revenues).
  - Project sponsors would establish a sinking fund deposit and collect investment earnings to repay the principal at maturity (20 years).
  - The U.S. Treasury would pay the “interest” portion of the debt through taxable federal income tax credits.
  - Tax credits may be decoupled – stripped such that the principal and credit components can be sold separately, improving market efficiency and expanding buyers base to pension funds and individual investors.
  - Tax credits may be transferred through sale and repurchase agreements.
- d) **Tax Credit Equity** – Another strategy being considered includes the use of tax credit equity financing whereby investors would contribute up-front capital to fund two-thirds of the project costs, and in turn receive annual tax credit, plus principal at maturity. The project sponsor, on the other hand, would make up-front matching contributions to fund the remaining one-third of project costs. Tax credit equity financing could be structured similarly to the New Markets Tax Credit program – which was established by the Community Renewal Tax Relief Act of 2000 to stimulate equity investment in the economic development of low-income communities-- for commercial and mixed use facilities.
- e) **User/Beneficiary Fees** – The use of any of the aforementioned federal credit enhancement and/or tax incentive programs must be targeted for projects that have revenue-generating ability and/or a form of user/beneficiary fee component to pay back the principal associated with construction as well as mitigation needs. The proposed business model approach would enable private sector partners to address their capital

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<sup>7</sup> The Multi-County Goods Movement Action Plan (see Section V) proposes that this issue needs to be reviewed and resolved at the State level.

improvement needs with lower-cost federal financing instruments while also addressing mitigation measures necessary to accommodate growth in freight traffic through local communities.

- f) **Innovative Procurement Arrangements/Project Delivery Systems** – Project delivery systems are defined by the development process and procurement methods utilized to implement projects in a timely and cost-effective manner. Innovative methods to project delivery include design-build (and further variations such as design-build-operate, design-build-operate-transfer, and design-build-transfer-operate). Each option provides advantages depending on the project. Essentially, the design-build method further facilitates the project development process by forging the designer and builder into a single contract to provide design and construction services and transfer the construction risk from the public agency. This method condenses the project timeline by compressing the delivery process from two distinct phases into one. Employing innovative project delivery methods can accelerate project completion, which in turn results in cost-savings.

Under California law, the construction portion of most public works contracts must be awarded on a least-cost basis. Accordingly, only transit agencies and selected local jurisdictions have the requisite statutory authorizations to employ innovative project delivery methods such as design-build. Moreover, a few large projects in California have utilized innovative project delivery methods by seeking special legislative authority. In order to facilitate a public-private partnership framework, innovative procurement/project delivery systems must be authorized.

Traditional grant programs alone cannot provide all the needed resources to efficiently deliver critical projects in the SCAG region. There must be greater incentives and flexibility in the use of debt and equity financing for goods movement projects capable of generating creditworthy revenue streams and providing substantial economic benefits beyond the local parameters of the project. Concurrently, efficient procurement/project delivery systems must be utilized to fully realize public benefits.

## **V. How We Are Improving the Goods Movement System Currently**

Southern California has taken many steps to keep goods moving through the region. One of the most noteworthy accomplishments is the Alameda Corridor, a freight rail “expressway” completed in 2002 between the ports and the transcontinental rail network in downtown Los Angeles that speeds freight through in less than half the previous time and in an environmentally friendly manner. Over the past six years the Ports of Los Angeles and Long Beach have spent close to \$800 million for on-dock rail facilities and highway improvements on regionally significant routes to help facilitate goods movement and reduce highway congestion.

In recognition of the immediate pressures in the region, many additional initiatives are already under way. These efforts range from privately initiated operational changes at the San Pedro Bay ports to public infrastructure projects on inland freeways. The 2004 Regional

Transportation Improvement Program (RTIP), for example, contains \$2 billion in goods-movement-related projects that are slated to start within the next six years.

The following sections briefly describe three categories of initiatives:

- Operating enhancements
- Environmental mitigations/enhancements, and
- System/physical enhancements.

Each category includes both short-term actions – generally, those that will have an effect immediately, or within about the next five years – and longer-term actions. These initiatives demonstrate accountability by following the state’s preferred hierarchy of transportation system actions: from preserving and improving the performance of the existing system, through the use of technology to improve operations and reduce impacts, to the last-resort of capital expenditure on system expansion. Even with the current operational and technology initiatives, there is no question that substantial investments in system expansion are needed for the Southern California goods movement system.

#### Operating Enhancements

The following operational initiatives are essentially all short-term strategies. *It is critical to understand that even if all these strategies are successful, they will get us through only the next five years.* Thus, the region must work now to develop plans and funding sources for longer-term efforts.

- a) Extended San Pedro Bay Port Gate Hours (“PierPass”)** – Although 18-20% of the current marine terminal gate volumes move during off-peak hours, most containers enter or exit terminals during the day shift from 8:00 a.m. to 5:00 p.m. Terminal operators at the Ports of Los Angeles and Long Beach have developed a plan to introduce five additional off-peak shifts per week at all 13 terminals. The goal is to make better use of available roadway capacity at night and on the weekend and try to shift 40% or more to off-peak hours. PierPass, Inc. is a special purpose entity created to administer the program.

Starting at the end of the first quarter 2005, PierPass will collect a container fee (initially set at \$20 per twenty-foot equivalent unit or TEU) from importers/exporters or their agents. A refund will be given for containers that use off-peak gates (defined as the night shift from 5:00 p.m. to 3:00 a.m. and weekends). The following movements will be exempt from the fee: domestic transshipments (containers transferred from one ship to another in domestic trade), empty containers, chassis, domestic cargo (including Hawaii and Guam), and those containers subject to the Alameda Corridor Transportation Authority (ACTA) fees. A recent survey by ACTA of warehouse and distribution center operators indicates willingness to extend their own operating hours to meet the ports’ extended gate operations.



Marine terminal operators developed the PierPass program in response to AB 2041 submitted by Assemblymember Alan Lowenthal in the 2004 legislative session. The bill would have imposed a fee on daytime gate moves, but the Assemblymember agreed to withdraw the bill after the industry developed its own plan.

- b) **Addition of Labor at the San Pedro Bay Ports** – In the summer of 2004, the Pacific Maritime Association reached agreement with the International Longshore and Warehouse Union to hire 3,000 additional “casual” (non-registered) workers to alleviate a labor shortage at the two ports. Since September over 3,000 new casuals have been trained and certified. An additional 2,000 existing “casual” workers have also been promoted into the registered ranks of the union. This brings the total number of regular and casual workers up to over 12,000 members, with the plan to increase the membership to close to 15,000 within a year.
- c) **Virtual Container Yard** – A “virtual” container yard (VCY) would be an Internet-based matching service for empty containers. A local import container load is transported by truck to a warehouse or distribution center. Once that container is unloaded it is typically hauled back empty to the port terminal. But what if that empty container could meet the needs of an exporter in the region? The container could be transported to the export location and then sent back loaded to the port. This would also avoid the necessity of dispatching an empty container from the port to pick up an export load. The intent of the VCY is to reduce the vehicle miles of travel associated with the movement of empty containers.

It has been estimated that approximately 2% of the import containers are currently taken directly to exporters. The goal of the VCY is to increase that percentage to at least 10%. The ports and ACTA hope to implement a VCY in 2005.

- d) **Increased Use of On-Dock Rail Yards** – Approximately 18% of all containers moving through the Ports of Los Angeles and Long Beach are transferred to and from trains at “on-dock” rail yards; i.e., yards that are located on or very near the marine terminal. This is distinguished from yards that are “near-dock”, such as the Intermodal Container Transfer Facility (ICTF), which is about 4.5 miles north of the ports, and “off-dock” rail yards located about 20 miles north of the ports near downtown Los Angeles.

Increasing the use of on-dock yards can reduce pressure on the freeway system, because containers that are loaded on-dock do not have to be trucked to more distant rail yards. To ensure port customers use on-dock intermodal rail to the fullest extent, the ports are investigating the following operational improvements to increase the use of on-dock yards:

- work with the railroads to assure timely arrival of empty intermodal equipment and the availability of rail crews
- work to improve the productivity of loading and unloading of rail cars
- promote the use of “block swap” operations to maximize the number of rail cars loaded on dock

- alter business practices to prevent storage of containers on rail lines at on-dock terminals.

In the long run, major improvements to rail infrastructure in the port area, particularly on the Long Beach side, will be required to accommodate increases in on-dock use. These improvements include new on-dock rail yards, additional storage tracks and arrival/departure tracks, and improved signaling and train control systems. However, these improvements will take longer than five years to implement.

- e) **Shuttle Train Pilot Project** – About 82% of the containers using the Ports of Los Angeles and Long Beach are trucked. Those containers that are trucked to warehouses in the Inland Empire could conceivably be hauled by rail from cargo terminals to an inland rail yard, where they could be transferred to truck for a shorter dray to the warehouse. ACTA is actively promoting a “demonstration project” for this concept and hopes to have a system in operation by the end of 2005. The principal obstacle to short-haul rail is that it is more expensive than trucking, and would require a public subsidy at least for the short term.
- f) **Short-Sea Shipping** – Short-sea shipping can provide an alternative freight traffic route via coastal waterways, and can be more fuel-efficient and cost-effective than highway or rail transportation. The Port of Hueneme is seeking to create a short-sea shipping or fast-ship terminal to facilitate this type of domestic waterborne shipping along the West Coast.

#### Environmental Mitigations/Enhancements

The Ports of Los Angeles and Long Beach have been working very hard to reduce pollution from port operations. Key port initiatives include:

- a) **Cold-ironing Study** – This program evaluates the potential for on-shore electrical power for ships at berth in lieu of using their onboard diesel engines to generate electrical power. This is a cost-effective strategy in the case of ships that spend extended periods of time in port.
- b) **Vessel Speed Reduction Program** – This is a voluntary program for ships to reduce speed to 12 knots within 20 miles of the harbor, which results in substantial fuel consumption and fuel cost savings, and associated emission reduction benefits. This program has been in effect since 2001, and is thought to have reduced NOx emissions by an estimated one to two tons per day, out of an estimated 50 tons per day produced by all ships (including cargo vessels) and commercial boats at the two ports.
- c) **Vessel Retrofit Program** – This program seeks to implement cost-effective technology retrofits such as in-line fuel emulsifiers, slide valves, and Marine Diesel Oil.
- d) **Smoke Stack Emissions Program** – This program involves Harbor Patrol observation and reporting to the South Coast Air Quality Management District (SCAQMD) of excessive smoke and soot emissions from ships.

- e) **Particulate Fallout Program** – This project reduces fugitive dust fallout from petroleum coke operations.
- f) **Harbor Department Fleet Conversion** – This program involves use of hybrids, clean diesel fuels, engine retrofits, and alternative fuels (e.g., LPG or CNG) for fleet vehicles (street sweepers, patrol cars, etc.)
- g) **Diesel Emission Reduction Program** – This program has two components: encouraging the use of emulsified diesel fuel in port terminal equipment, so as to permit the retrofit of port terminal equipment with Diesel Oxidation Catalysts. This involves providing incentives for the use of emulsified diesel fuel and installing diesel oxidation catalysts (DOCs) on terminal equipment. The specific fuel selected for this program is verified by CARB to reduce NOx by 14% and PM by over 60%. Diesel Particulate Filters (DPF) and Selective Catalytic Reduction (SCR) technologies are now permitting both NOx and PM emission reductions from diesel engines. Accelerating their adoption will prove beneficial in the control of port-related emissions.
- h) **Liquefied Natural Gas (LNG) Yard Hostler Project** – This is a pilot project to determine the feasibility of using LNG for terminal yard hostlers, the small tractors that move containers on chassis within the terminal.
- i) **Clean Diesel Fuel for Construction Equipment Program** – This program requires all construction equipment fueled on-site to use ultra-low sulfur diesel fuel.
- j) **Switch Locomotive Fleet Replacement Program** – The ports, along with the Carl Moyer Program, are negotiating with Pacific Harbor Line (PHL), the railroad that performs local switching in the harbor area, to replace PHL's locomotive fleet with cleaner locomotives. Once the agreements have been implemented, it is expected that the entire fleet of switch locomotives can be replaced with more efficient machinery within a two-year period, resulting in a reduction of NOx emissions by approximately 70 percent. An experimental program is testing the effectiveness of hybrid locomotive engines, in place of conventional diesel.

Outside the ports, other local initiatives are contributing to the immediate reduction of goods movement impacts on air quality. The Gateway Cities Clean Air Program provides financial incentives in support of diesel truck fleet modernization and improvements to off-road commercial vehicles. This pilot program began in 2002 and receives funding support from U.S. Environmental Protection Agency (EPA), CARB, the Port of Long Beach, the Port of Los Angeles, and the SCAQMD.

The fleet modernization program compensates owners of 1986 or older trucks when they buy a 1999 or newer used diesel truck that is more reliable, cleaner, and fuel-efficient. An average grant is between \$20,000 ~~to~~ and \$25,000, reducing the cost of converting to lower-emitting and cleaner trucks by about 60%. Preference is given to truck owners engaged in port-related goods movement. In general, each truck modernization grant generates a 50% reduction in

NOx emissions and a 80% reduction in PM emissions. The program is expected to reduce NOx and PM emissions by an estimated 340 tons and 85 tons, respectively, over the next five years. The off-road vehicle improvement program, operating in conjunction with the Port of Long Beach Healthy Harbor Initiative, focuses on retrofitting diesel terminal equipment with diesel oxidation catalysts, which can reduce particulate matter emissions by 25 percent. This program is expected to reduce NOx emissions from off-road equipment by some 20-30 tons and PM emissions by about 3.5-4 tons, resulting in an estimated 20% reduction in NOx emissions and a 50% reduction in PM emissions.

The current pilot program is anticipated to replace about 500 trucks, reducing NOx by about 1.07 tons per day and PM by about 0.24 tons per day. The program hopes to expand its scope to target a goal of replacing 50% of the pre-1983 heavy-duty trucks in Los Angeles County, replacing about 3,000 trucks in all. This fleet modernization strategy has an estimated cost-effectiveness of \$7,200 to \$ 9,000 per ton of NOx emissions reduced. This goal would require a funding level of \$84.5 million, of which \$13.86 million have already been raised.

At the state level, ~~the~~ CARB's Carl Moyer Memorial Air Quality Standards Attainment Program is providing funds to help speed up the introduction and use of low-emission heavy-duty engines. A wide array of goods movement equipment is eligible for the program, including cleaner on-road, off-road, marine, locomotive, forklifts, and airport ground support equipment. The program achieves near-term reductions in emissions of oxides of nitrogen (NOx) by incentivizing the incremental cost of cleaner than required engines and equipment.

Unfortunately, there are some air pollution issues that are beyond the direct control of the region, the states and even the United States. The International Maritime Organization (IMO) regulates pollution from ocean-going vessels. The IMO approved MARPOL Annex VI in September 1997, which calls for lower emissions from ships and also provides for the adoption of Sulfur Emission Control Areas (SECAs). A SECA would require ships to use low sulfur fuel within the SECA. However, the U.S. Senate has not yet adopted MARPOL Annex VI. The U.S. EPA needs to make a case for MARPOL Annex VI and the establishment of a SECA. Once the U.S. adopts MARPOL Annex VI, the IMO could approve a SECA for the west coast of the U.S. or preferably for the entire U.S. Without a SECA, it may be very difficult to achieve a "no net increase" in emissions in the port area.

### System/Physical Enhancements

In general, shorter-term infrastructure investments are those reflected in the 2004 Regional Transportation Improvement Program (RTIP), which programs transportation funds for the coming six years. Longer-term investments (out to 2030) are included in the 2004 Regional Transportation Plan (RTP).

- a) **Truck Climbing Lanes** – Truck climbing lanes are additional uphill lanes on the outside of a freeway that allow slow-moving trucks to proceed safely without disrupting the flow of other traffic. Short-term projects in the 2004 RTIP include ~~N~~nearly \$440 million worth of truck climbing lane projects in Riverside and San Bernardino Counties ~~are included in the 2004 RTIP~~. The 2004 RTP includes additional truck climbing lanes on four routes in

Orange, Riverside, and San Bernardino Counties, with implementation dates ranging from 2010 to 2030.

- b) **I-710 Corridor/Desmond Bridge Gateway Program** – The I-710/Desmond Bridge Gateway Program is a comprehensive, strategic approach to addressing the congestion, air quality, and safety issues in the Corridor between the Ports of Long Beach/Los Angeles and State Route 60. The I-710 and Gerald Desmond Bridge carry approximately 15% and 10% of all U.S. waterborne container volume, respectively. The I-710/Desmond Bridge Program consists of the Gerald Desmond Bridge Replacement and the Locally Preferred Strategy for the I-710 Corridor, which includes dedicated truck lanes parallel to the mainline. The estimated total cost for the Desmond Bridge is \$711 (escalated) and \$4.5 billion for the I-710 Corridor component. This program will take at least ten years to implement.
  
- c) **Alameda Corridor East (ACE) and Other Grade Separations** – Another critical step in goods movement is reducing conflicts between trains and motor vehicles by separating at-grade crossings. Like the Alameda Corridor, the ACE project seeks to speed freight bound eastward through the region by eliminating grade-crossing conflicts through the San Gabriel Valley, Orange County, and the Inland Empire. The total cost of this effort is approximately \$2.5 billion. Short-term efforts in the 2004 RTIP include a total of \$873 million in the 2004 RTIP is dedicated to grade separation projects that will begin in the next six years. The remainder of the work will proceed in the mid- and long-term as funds become available.
  
- d) **Port Infrastructure Projects To Improve Rail Operations** – Through their Ports Rail Master Plan, the Ports of Los Angeles and Long Beach have developed plans for track and signal improvements throughout the harbor area through 2020~~5~~. These plans include additional on-dock yards, Centralized Traffic Control, additional storage tracks, longer arrival and departure tracks, bridge improvements and related facilities to accommodate expected increases in rail traffic. Relatively minor projects like track connections are planned for the next two years; additional on-dock rail yards and expansions of existing yards are planned within 5 years; and large-capacity “mega-terminal” yards will be completed between five and fifteen years into the future.
  
- e) **New Intermodal Facilities** – The region is facing a shortage in intermodal rail yard capacity. Already the Burlington Northern & Santa Fe Railway Company (BNSF) has placed limits on the number of containers it will accept at Hobart Yard near downtown Los Angeles. It has been estimated that by 2020 there could be a region-wide shortage of 9 million lifts (domestic and international) per year.

Most of the responses to the growing need for intermodal lift capacity could take more than five years to complete. In the near-term, the Port of Los Angeles has adopted an Intermodal Rail Policy that “provides for on-dock and comparable near-dock intermodal facilities for shippers, carriers and terminal operators by Class I Railroads.” The Port ~~proposes~~ to construct a new near-dock rail yard immediately south of the existing ICTF, using private funds. The new yard would accommodate 1,000,000 to 2,000,000 TEUs per

year (540,000 to 1,100,000 lifts per year). Such a facility could eliminate one million truck trips annually from the 710 Freeway, employ between 800 and 1,000 people, and better utilize the Alameda Corridor.

Other potential developments include inland rail yards at the sites of the former George and Norton Air Force bases in Victorville and San Bernardino, respectively. Another yard has been proposed on privately owned land in Devore near the intersection of the I-15 and I-215 freeways. These yards could accommodate local shuttle trains, or “block swap” operations.

- f) **New Freight Rail Capacity** – Given increased freight and passenger rail traffic, mainlines east of Los Angeles will need to be triple- and sometimes quadruple-tracked in the coming years. Bottlenecks such as the rail-to-rail Colton Crossing must also be addressed. Long-range projects in the The 2004 RTP includes provisions for a regional rail capacity improvement program totaling \$3.4 billion, which provides for both additional track capacity and mitigations in the form of grade separation projects.
- g) **New Toll-Funded Roadway Improvements to Address Truck Demand** – Recognizing the need for additional highway capacity to handle increased truck as well as passenger traffic, the 2004 RTP explores the long-range strategy of dedicated facilities to accommodate truck traffic. The RTP includes proposals for several new toll-funded corridors in the region, including on the I-710, the I-15, and on east-west routes to be determined. A prior study showed that a dedicated truck facility would be feasible on SR-60. In line with the principles stated earlier, community impact mitigation will be an integral part of these projects.
- h) **Land Use Changes** – The adopted 2004 RTP was developed with input from the regional growth visioning process known as Southern California Compass. The Compass vision showed that a departure from the usual growth and land use patterns could yield substantial benefits to the region in the form of reduced traffic congestion and reduced time lost in travel delays. The further development of this vision has been termed the “2% Strategy,” in reference to the small percentage of the region’s land area where local land use practices would need to change to reap these benefits. Implementation of the 2% Strategy at the local level can be combined with the development of new goods movement infrastructure so that growth is accommodated with reduced impacts and with greater local and regional economic benefit.

The five County Transportation Commissions in the SCAG region (Los Angeles, Orange, Riverside, San Bernardino, and Ventura) are working with SCAG and the four Caltrans districts (7, 8, 11, and 12) on a 2-year project to develop an implementation plan for the Southern California goods movement system. The mission of this Multi-County Goods Movement Action Plan effort, which is administratively led by LA County MTA, is to partner with the private sector in the development of a strategy and implementation plan for an improved regional goods movement system that will reflect all of the actions described above.

## **SUGGESTED PARAGRAPH FOR GOVERNOR'S STATE OF THE STATE ADDRESS**

During my recent visit to Japan, business leaders told me that they couldn't get goods to market through the bottleneck at the Ports of Los Angeles and Long Beach.

The immediate problem has been resolved through a number of actions. More port labor has been brought in, and the ports are extending operating hours. But more work needs to be done.

Statewide, the logistics industry pays well and provides hundreds of thousands of jobs for Californians – and it is growing. California can gain millions in new tax revenues – if we invest in new infrastructure for the industry. I see a win-win situation here. We can keep our economy growing by helping our logistics industry increase its productivity, and leverage that economic growth into investments that will help clean up our air. It's a great opportunity for private business, public agencies, and the health community to team up on a common objective.

I have asked the Secretary of Business, Transportation and Housing to work with public and private interests over the next 90 days to develop innovative approaches and bring new sources of funds to the table. With these investments, Californians will benefit from a stronger economy and cleaner air.